Software Project Categorization Table

(From LeR M2.6.4 LeRC's Software Development Manual, Draft C, 7/20/98)

Project Name: _____

Lead Engineer: _____   Date: _____

Control Level : _____

Factor	1	2	3	4	5
Resourcing					
Software cost over life of project (including all civil servants and contractors)	$0 - $250K	$250K – 500K	$500K - $1M	$1M - $10M	$10M and up
Project Team Membership	Up to 2, all NASA or SSC	Up to 5, all NASA or SSC; or up to 5 with some external contract support	Up to 10 all NASA or SSC; or up to 5 with some external contract support	Up to 20 all NASA or SSC; or up to 10 with some external contract support	More than 20 all NASA or SSC; more than 10 with some external contract support
Organizational Complexity					
Project development location	Own Group	Several Groups, most at Lewis	More than 2 other sites	More than 3 other sites	Numerous sites
Developers Software experience level	All team qualified and experienced	Most team members qualified and experienced	Half the team qualified and experienced	Few team members experienced	Experienced staff no available
Technical Complexity					
Test Risk	No testing required		Standard testing required		Major testing effort required (e.g. IV&V)
Degree of Innovation	Well proven, known to Lewis		Proven, but new to Lewis		Pioneering
Software development tool availability	All software development tools already purchased/in-house/familiar with	Majority of the software development tools are purchased /in-house/familiar with	Software development tools must be identified and purchased and learned	Majority of software development tools must be obtained, remainder developed	All software development tools must be developed
Interdependencies of deliverables	Simple standalone	Some Integration	Integrated	Highly integrated	Fully integrated
Business Implications					
Impact of failure	Difficult to detect, minor loss in customer confidence	Maximum loss of $500K, loss in customer confidence	Maximum loss of $1M, damage to LeRC/NASA reputation	**Loss exceeding $1M, severe damage to LeRC/NASA reputation**	**Loss of life, very significant impact to NASA**
Schedule Pressure	No time pressure	Little effort to meet milestones	Nominal effort to meet milestones	Aggressive effort to meet milestones	Time critical
Customers					
Internal	Self	Other in own Directorate	Another Directorate	Several Directorates	Center wide use
External	None	One customer group, low number of users	One customer group, numerous users	Several customer groups	Entire industry or multiple industries

Critical Control (applies to Impact of failure, levels 4 and 5)

|---------Low control software --------|

      |------ Medium control software----|

            |------------- High control software ----------------------|